



**LAHIVE
&
COCKFIELD**
L L P

COUNSELLORS AT LAW
28 STATE STREET
BOSTON, MASSACHUSETTS 02109-1784
TELEPHONE (617) 227-7400
FAX (617) 742-4214
www.lahive.com

JOHN A. LAHIVE, JR. (1928-1997)
THOMAS V. SMURZYNSKI
GIULIO A. DeCONTI, JR.
ELIZABETH A. HANLEY
AMY BAKER MANDRAGOURAS
ANTHONY A. LAURENTANO
KEVIN J. CANNING
JANE E. REMILLARD
DEBRA J. MILASINICIC, Ph.D.
MEGAN E. WILLIAMS, Ph.D.
WILLIAM A. SCOFIELD, JR.
SIBLEY P. REPPERT
JOHN D. LANZA
DAVID R. BURNS
JOHN S. CURRAN
SEAN D. DETWEILER
HATHAWAY P. RUSSELL *
MARIA LACOTRIPE ZACHARAKIS, Ph.D.

DANIELLE L. HERF
EUIHOON LEE **
MANEESH GULATI
CYNTHIA M. SOROS
PETER W. DINI, Ph.D.
MICHAEL J. BASTIAN, Ph.D.
CHRISTOPHER J. MCKENNA
VINCENT P. LOCCISANO
JAMES M. MCKENZIE
CYNTHIA M. GILBERT
LEIGH J. MARTINSON
JILL R. GORNY
SENIOR COUNSEL
JAMES E. COCKFIELD (1930-2005)

OF COUNSEL
JEREMIAH LYNCH
JEANNE M. DIGIORGIO
CYNTHIA L. KANIK, Ph.D.

PATENT AGENTS
JONATHAN M. SPARKS, Ph.D.
CRISTIN E. HOWLEY, Ph.D.
JILL ANN MELLO, Ph.D.
CHRISTOPHER E. DRABIK
JAMES H. VELEMA
JACOB G. WEINTRAUB
BRIAN C. TRINQUE, Ph.D.

TECHNICAL SPECIALISTS
CATHERINE M. BISHOP
DEBORAH L. NAGLE, Ph.D.
ANNE JACQUELINE WIZEMAN,
Ph.D.
CHRISTOPHER R. COWLES,
Ph.D.
W. ELANA WANG
MEAGHAN L. RICHMOND, Ph.D.

* Admitted in TX only
** Admitted in CT only

May 11, 2005

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Re: U.S. Patent Application No.: 10/516,567
For: *IMPROVEMENTS IN OR RELATING TO THE MONITORING OF TWO-PHASE FLUID FLOW*
Inventors: Peter J. Unsworth, *et al.*
Filed: December 1, 2004
Our Ref. No.: BKT-004US

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. PTO Form SB/08;
3. Copies of selected references cited in PTO Form SB/08 (C1-C4);
4. A Return Postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

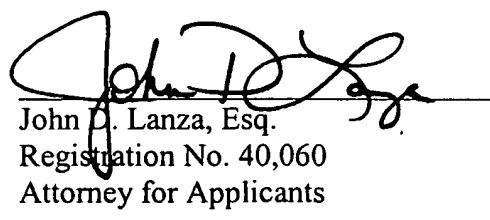
I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to:
MS Amendment, Commissioner for Patents, P.O. Box 1450,
Alexandria, Virginia 22313-1450 on:

May 11, 2005

Date

John D. Lanza, Esq. Registration No. 40,060

Respectfully submitted,
LAHIVE & COCKFIELD, LLP


John D. Lanza, Esq.
Registration No. 40,060
Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Peter J. Unsworth, *et al.*

Serial No.: 10/516,567

Filed: December 1, 2004

For: *IMPROVEMENTS IN OR RELATING TO THE MONITORING OF TWO-PHASE FLUID FLOW*

Attorney Docket No.: BKT-004US

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

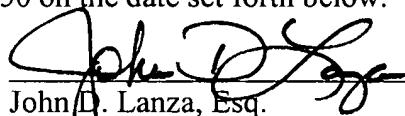
Certificate of First Class Mailing (37 CFR §1.8(a))

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on the date set forth below.

May 11, 2005

Date of Signature and of Mail Deposit

By:


John D. Lanza, Esq.
Registration No. 40,060
Attorney for Applicants

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants and their Attorney are aware of the following publications and information, listed on the attached PTO Form SB/08, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. These references were cited in an International Search Report dated January 5, 2004 during the prosecution of PCT/GB 03/02376 which corresponds to the above referenced application. A copy of the report is enclosed. A copy of the cited U.S. patent (Reference ID No. A1) is not enclosed with this statement. Copies of non-patent literature (Reference ID Nos. C1-C4) are enclosed in accordance with 37 CFR 1.98.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR §1.17(p) to our Deposit Order Account No. 12-0080.

Date: May 11, 2005

Respectfully submitted,
LAHIVE & COCKFIELD, LLP



John D. Lanza, Esq.
Registration No. 40,060
Attorney for Applicants
28 State Street
Boston, MA 02109
(617) 227-7400

JDL/knr
Enclosures

Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	10/516,567
				Filing Date	December 1, 2004
				First Named Inventor	Peter J. Unsworth
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	BKT-004US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A1		4,876,897	10-31-1989	DeCarlo, <i>et al.</i>	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
					T ⁶

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	C1	Foussat, A., <i>et al.</i> "Vertical Liquid-Liquid and Liquid-Gas Two-Phase Flow Measurements with a Vortex Flow Meter." <i>Measuring Techniques in Gas-Liquid Two-Phase Flows, Symposium</i> , 1984, pp. 651-676.			
	C2	Khan, H., <i>et al.</i> "Statistical Characterization of Air Water Bubbly Flow Using Differential Pressure Drop Measurements." <i>Proceedings of the Fluids Engineering Conference</i> , 20-24 June, 1993, pp. 137-149.			
	C3	Mi, Y. <i>et al.</i> "Flow Regime Identification Methodology with Neural Networks and Two-Phase Flow Models." <i>Nuclear Engineering and Design</i> , February 2001, 204(1-3):87-100.			
	C4	Pusayatanont, M., <i>et al.</i> "Two-Phase Flow Measurement Based on the Analysis of the Sensor Signal from a Conventional Vortex Flowmeter." <i>Proceedings 11th International Conference on Flow Measurement (Flomeko, 2003)</i> , 12-14 May, 2003, Paper 128, pp. 1-8.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
--------------------	-----------------